

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P628264

Luminaire Tested: **IFLD-L-SA8C-735-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628264  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-735-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	51427.6 lumens	Max Intensity:	16763.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	122.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

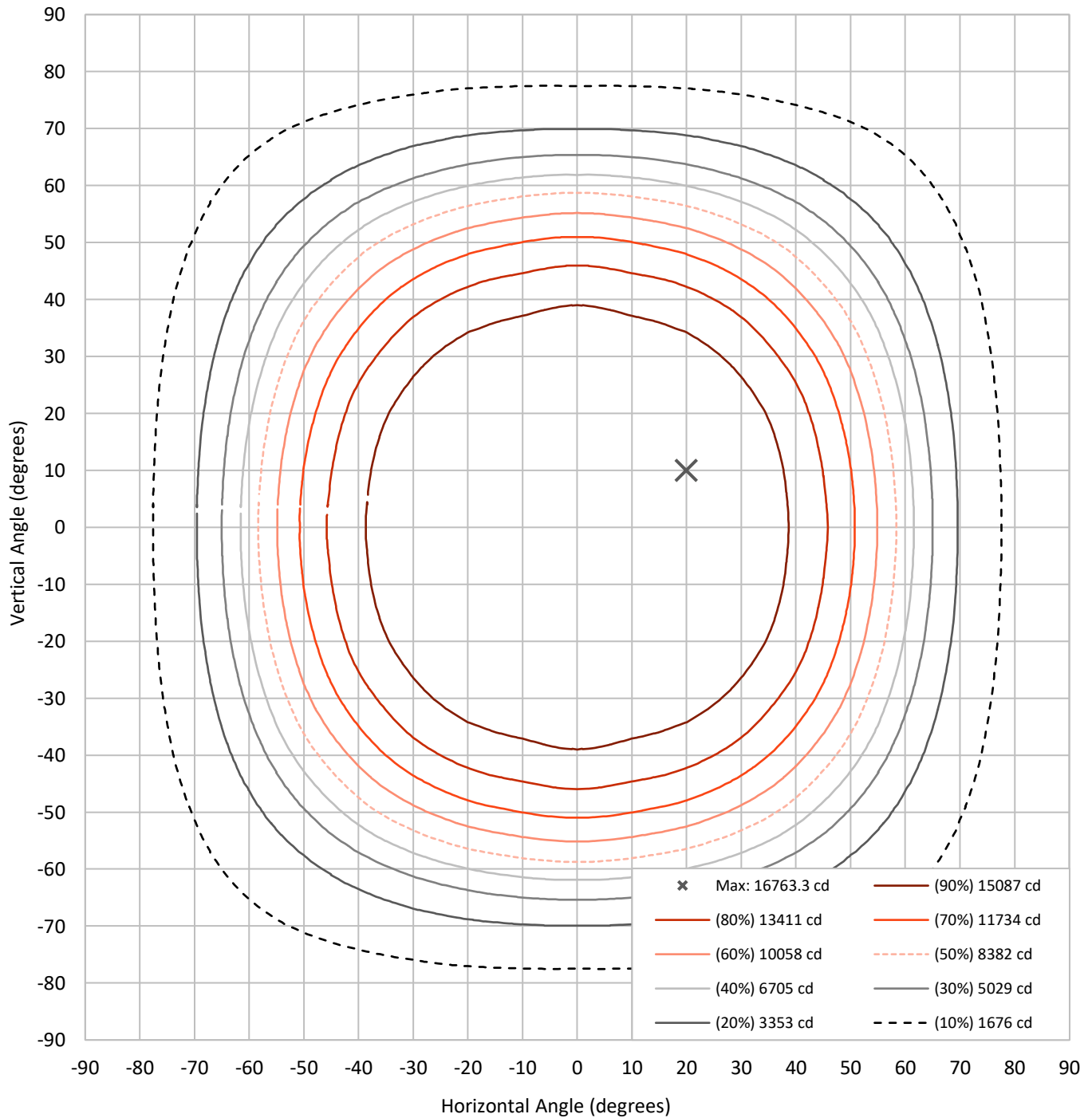
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	31557 lumens	Field Lumens:	37831.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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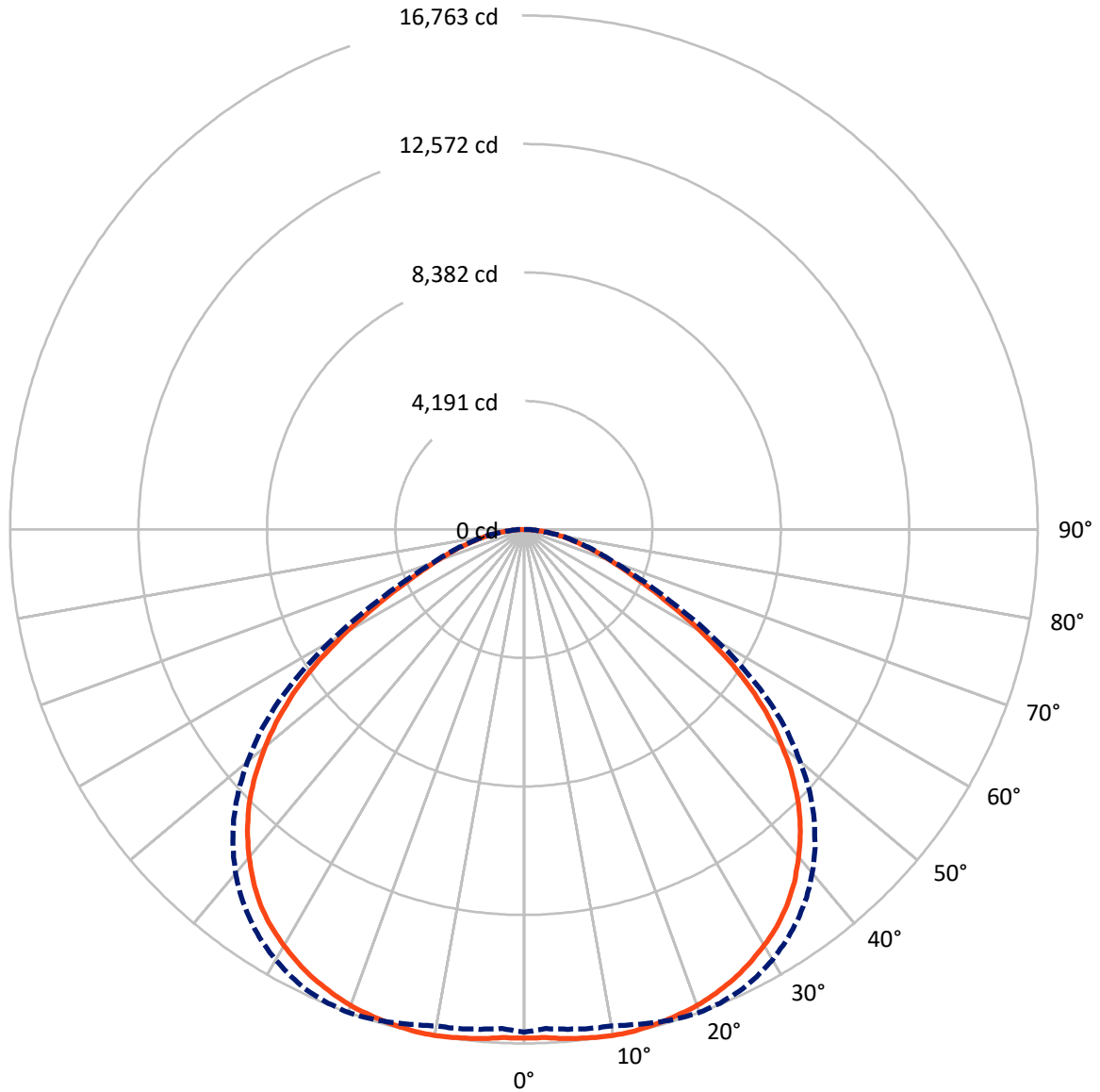
### Iso-Candela Plot





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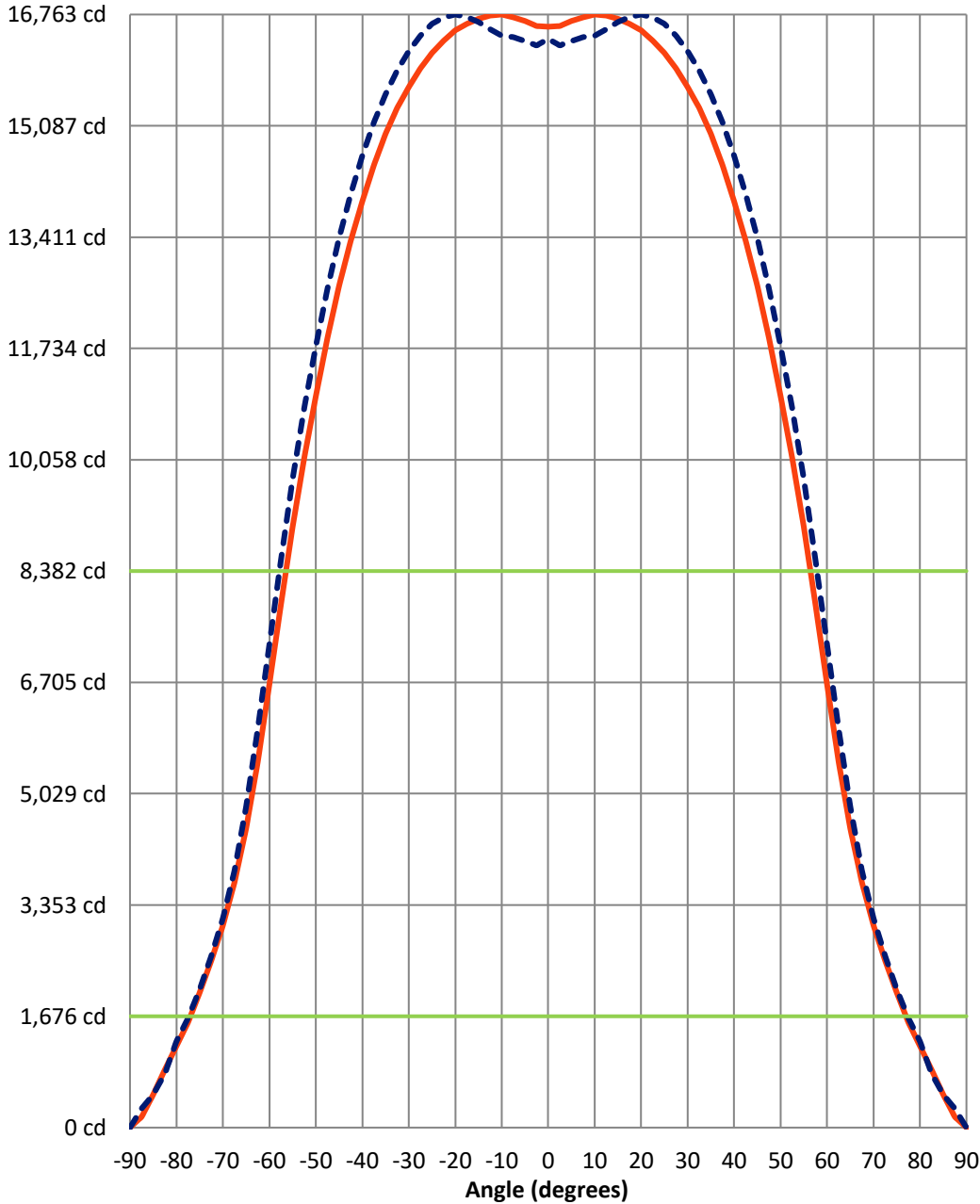
### Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg    - - - Horizontal Distribution Through 10-Deg

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### Luminous Intensity Plot



**Beam:**  
H Angle: 115.7°  
V Angle: 112.9°  
Lumens: 31557  
Efficiency: 61.4%

**Field:**  
H Angle: 154.7°  
V Angle: 154°  
Lumens: 37831.5  
Efficiency: 73.6%

**Spill:**  
Lumens: 13596.1  
Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	135.3	146.1	151.5	156.9	162.3	167.7	173.2	167.7	162.3	162.3	156.9
85°	362.5	373.4	378.8	416.6	454.5	476.2	503.2	497.8	497.8	492.4	487.0
82.5°	725.1	757.5	784.6	822.5	844.1	876.6	898.2	882.0	871.2	849.5	833.3
80°	1287.8	1298.6	1304.1	1309.5	1282.4	1277.0	1266.2	1249.9	1228.3	1201.2	1174.2
77.5°	1639.5	1650.4	1661.2	1650.4	1644.9	1639.5	1623.3	1607.1	1585.4	1563.8	1531.3
75°	2169.8	2169.8	2169.8	2153.6	2142.8	2126.5	2099.5	2072.4	2034.5	1991.3	1942.6
72.5°	2732.6	2727.1	2721.7	2689.3	2662.2	2629.8	2591.9	2559.4	2516.1	2467.4	2402.5
70°	3322.4	3333.2	3338.6	3295.3	3262.8	3219.6	3170.9	3111.3	3046.4	2976.1	2884.1
67.5°	4134.0	4123.2	4112.4	4052.8	4009.6	3950.0	3879.7	3793.1	3695.7	3587.5	3457.6
65°	5140.5	5156.7	5124.2	5064.7	4983.5	4886.1	4777.9	4653.5	4507.4	4345.0	4161.1
62.5°	6357.9	6385.0	6347.1	6271.4	6168.6	6038.7	5887.2	5708.6	5508.4	5281.1	5053.9
60°	7743.2	7737.7	7667.4	7564.6	7429.3	7267.0	7099.2	6904.4	6677.2	6412.0	6136.1
57.5°	9014.7	9003.9	8917.3	8814.5	8679.3	8506.1	8327.5	8121.9	7883.8	7602.5	7283.2
55°	10156.5	10145.6	10059.1	9950.8	9810.2	9637.0	9474.7	9279.9	9047.2	8749.6	8408.7
52.5°	11168.3	11173.7	11098.0	10978.9	10827.4	10659.7	10502.8	10308.0	10086.1	9788.5	9458.4
50°	12099.0	12093.6	12012.4	11904.2	11763.5	11601.2	11444.3	11249.5	11016.8	10730.0	10410.8
47.5°	12964.8	12954.0	12862.0	12742.9	12596.8	12456.1	12310.0	12136.9	11893.4	11606.6	11287.4
45°	13689.9	13668.2	13576.2	13462.6	13321.9	13197.5	13067.6	12937.7	12678.0	12412.9	12109.8
42.5°	14312.1	14306.7	14214.7	14101.1	13960.4	13852.2	13733.1	13570.8	13354.4	13110.9	12813.3
40°	14907.3	14864.0	14772.1	14663.8	14534.0	14442.0	14322.9	14160.6	13949.6	13711.5	13424.7
37.5°	15351.0	15356.4	15259.0	15140.0	15026.4	14939.8	14831.6	14680.1	14496.1	14263.4	13976.6
35°	15773.1	15746.0	15664.9	15562.1	15459.3	15361.9	15248.2	15118.4	14966.9	14750.4	14479.9
32.5°	16049.1	16086.9	15989.5	15881.3	15821.8	15746.0	15627.0	15491.7	15356.4	15140.0	14896.5
30°	16352.1	16319.6	16243.9	16151.9	16108.6	16059.9	15957.1	15827.2	15670.3	15475.5	15248.2
27.5°	16563.1	16546.9	16454.9	16368.3	16346.7	16303.4	16222.2	16108.6	15951.7	15762.3	15551.2
25°	16655.1	16665.9	16579.3	16530.6	16530.6	16503.6	16438.7	16341.3	16184.3	16011.2	15805.6
22.5°	16698.4	16687.6	16628.0	16617.2	16644.3	16622.6	16595.6	16509.0	16368.3	16227.6	16054.5
20°	16725.4	16649.7	16595.6	16638.9	16671.3	16665.9	16644.3	16590.2	16525.2	16406.2	16254.7
17.5°	16665.9	16617.2	16552.3	16617.2	16687.6	16693.0	16671.3	16638.9	16622.6	16546.9	16411.6
15°	16519.8	16481.9	16492.8	16557.7	16638.9	16665.9	16682.1	16720.0	16698.4	16638.9	16519.8
12.5°	16422.4	16373.7	16422.4	16487.3	16530.6	16546.9	16676.7	16747.1	16747.1	16693.0	16617.2
10°	16395.4	16298.0	16362.9	16422.4	16444.1	16541.5	16649.7	16725.4	16763.3	16720.0	16622.6
7.5°	16341.3	16276.3	16303.4	16330.4	16454.9	16525.2	16584.7	16665.9	16720.0	16714.6	16628.0
5°	16314.2	16233.0	16243.9	16357.5	16444.1	16492.8	16514.4	16584.7	16665.9	16682.1	16617.2
2.5°	16243.9	16206.0	16287.1	16298.0	16362.9	16400.8	16422.4	16487.3	16590.2	16628.0	16601.0
0°	16206.0	16151.9	16097.8	16141.0	16249.3	16330.4	16362.9	16460.3	16579.3	16617.2	16557.7



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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	151.5	146.1	140.7	135.3	140.7	140.7	140.7	135.3	140.7	135.3	135.3
85°	470.8	449.1	432.9	411.2	389.6	373.4	351.7	330.1	324.7	319.2	308.4
82.5°	811.7	784.6	757.5	725.1	692.6	654.7	616.9	573.6	562.7	551.9	535.7
80°	1141.7	1103.8	1066.0	1028.1	995.6	957.7	914.5	865.8	833.3	806.2	773.8
77.5°	1488.0	1433.9	1379.8	1314.9	1277.0	1239.1	1195.8	1147.1	1098.4	1055.1	1006.4
75°	1883.0	1823.5	1769.4	1704.5	1634.1	1563.8	1493.4	1428.5	1358.2	1293.2	1228.3
72.5°	2321.3	2234.7	2148.2	2067.0	1980.4	1893.9	1801.9	1715.3	1628.7	1542.1	1450.2
70°	2781.3	2673.0	2564.8	2456.6	2343.0	2229.3	2121.1	2012.9	1904.7	1791.0	1688.2
67.5°	3322.4	3197.9	3057.2	2905.7	2738.0	2591.9	2451.2	2321.3	2191.5	2061.6	1931.7
65°	3998.7	3825.6	3636.2	3430.6	3235.8	3041.0	2835.4	2640.6	2489.1	2337.6	2191.5
62.5°	4832.0	4588.5	4323.4	4058.3	3820.2	3565.9	3327.8	3073.5	2835.4	2618.9	2440.4
60°	5827.7	5497.6	5172.9	4832.0	4502.0	4155.7	3852.6	3538.8	3241.2	2976.1	2716.3
57.5°	6926.1	6541.9	6152.3	5735.7	5286.6	4880.7	4469.5	4058.3	3706.5	3354.8	3062.6
55°	8040.8	7634.9	7196.6	6725.9	6233.5	5714.0	5156.7	4696.8	4215.2	3803.9	3425.2
52.5°	9101.3	8679.3	8224.7	7791.9	7202.1	6606.8	5995.4	5389.4	4826.6	4301.8	3841.8
50°	10048.2	9637.0	9198.7	8695.5	8149.0	7515.9	6834.1	6152.3	5486.8	4869.9	4296.3
47.5°	10914.0	10513.6	10075.3	9572.1	9074.3	8370.8	7683.6	6931.5	6190.2	5481.4	4810.4
45°	11725.7	11319.8	10865.3	10383.7	9810.2	9182.5	8473.6	7716.1	6920.7	6125.3	5351.5
42.5°	12461.6	12055.7	11595.8	11098.0	10529.8	9907.6	9220.4	8457.4	7656.6	6790.8	5941.3
40°	13105.5	12710.5	12266.8	11747.3	11217.0	10562.3	9885.9	9160.8	8333.0	7461.8	6525.7
37.5°	13668.2	13300.3	12862.0	12347.9	11785.2	11200.8	10502.8	9777.7	9031.0	8084.0	7126.3
35°	14166.0	13825.1	13376.0	12889.0	12337.1	11720.2	11065.5	10356.7	9550.4	8663.0	7732.3
32.5°	14598.9	14252.6	13841.4	13354.4	12818.7	12239.7	11568.7	10854.5	10091.5	9187.9	8176.0
30°	14966.9	14631.4	14241.8	13781.8	13267.8	12694.2	12039.5	11319.8	10540.6	9642.4	8641.4
27.5°	15286.1	14966.9	14588.1	14160.6	13668.2	13116.3	12456.1	11731.1	10935.7	10069.9	9068.9
25°	15562.1	15253.6	14901.9	14496.1	14009.1	13468.0	12845.7	12088.2	11292.8	10421.6	9431.4
22.5°	15811.0	15513.4	15161.7	14766.6	14322.9	13781.8	13154.2	12402.0	11595.8	10735.4	9761.5
20°	16032.8	15756.9	15410.6	15004.7	14561.0	14014.5	13392.3	12678.0	11866.3	11022.2	10059.1
17.5°	16211.4	15967.9	15621.6	15194.1	14750.4	14220.1	13614.1	12959.4	12099.0	11265.7	10308.0
15°	16335.8	16097.8	15783.9	15351.0	14918.2	14393.3	13787.3	13110.9	12310.0	11460.5	10513.6
12.5°	16422.4	16168.1	15875.9	15475.5	15042.6	14523.2	13933.4	13267.8	12488.6	11633.7	10692.2
10°	16444.1	16211.4	15919.2	15562.1	15140.0	14636.8	14057.8	13397.7	12634.7	11768.9	10838.3
7.5°	16454.9	16233.0	15967.9	15627.0	15210.4	14723.4	14149.8	13500.5	12742.9	11882.6	10946.5
5°	16449.5	16238.4	16000.4	15670.3	15253.6	14772.1	14209.3	13570.8	12818.7	11958.3	11027.6
2.5°	16433.2	16243.9	16022.0	15702.8	15302.3	14826.2	14268.8	13652.0	12899.8	12023.3	11092.6
0°	16476.5	16314.2	16032.8	15691.9	15313.2	14826.2	14263.4	13662.8	12910.7	12017.9	11087.2





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**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	135.3	129.9	129.9	124.5	119.0	113.6	102.8	97.4	86.6	70.3	54.1
85°	292.2	276.0	259.7	248.9	238.1	227.3	211.0	194.8	173.2	140.7	108.2
82.5°	514.0	481.6	449.1	411.2	378.8	346.3	319.2	292.2	259.7	211.0	162.3
80°	735.9	687.2	638.5	584.4	535.7	481.6	432.9	389.6	346.3	281.4	216.4
77.5°	957.7	892.8	822.5	757.5	687.2	616.9	546.5	487.0	422.1	346.3	270.6
75°	1163.4	1087.6	1022.7	930.7	844.1	752.1	660.1	579.0	497.8	405.8	324.7
72.5°	1369.0	1271.6	1179.6	1093.0	995.6	882.0	779.2	676.4	573.6	465.3	367.9
70°	1574.6	1455.6	1341.9	1239.1	1130.9	1017.3	892.8	773.8	649.3	519.5	405.8
67.5°	1785.6	1650.4	1520.5	1390.6	1266.2	1136.3	1006.4	871.2	725.1	573.6	449.1
65°	2018.3	1850.6	1693.6	1547.5	1401.5	1260.8	1114.7	968.6	806.2	633.1	487.0
62.5°	2251.0	2067.0	1883.0	1699.1	1536.7	1379.8	1222.9	1060.6	882.0	698.0	524.9
60°	2499.9	2288.9	2077.8	1872.2	1672.0	1498.8	1325.7	1152.5	963.2	757.5	562.7
57.5°	2775.8	2521.5	2283.4	2050.8	1823.5	1617.9	1428.5	1244.5	1033.5	817.1	606.0
55°	3089.7	2775.8	2494.5	2234.7	1985.8	1736.9	1531.3	1341.9	1114.7	876.6	654.7
52.5°	3419.8	3057.2	2716.3	2424.1	2159.0	1877.6	1628.7	1417.7	1195.8	936.1	698.0
50°	3803.9	3344.0	2965.2	2608.1	2310.5	2018.3	1731.5	1504.3	1277.0	1006.4	741.3
47.5°	4198.9	3690.3	3214.1	2824.5	2472.8	2153.6	1850.6	1580.0	1352.8	1071.4	784.6
45°	4658.9	4020.4	3495.5	3035.6	2629.8	2294.3	1969.6	1661.2	1417.7	1136.3	827.9
42.5°	5102.6	4410.0	3787.7	3268.3	2808.3	2429.5	2077.8	1747.8	1482.6	1201.2	865.8
40°	5627.5	4799.6	4069.1	3490.1	2986.9	2559.4	2186.0	1839.7	1542.1	1260.8	903.6
37.5°	6130.7	5194.6	4410.0	3733.6	3160.0	2689.3	2294.3	1926.3	1596.2	1320.3	952.3
35°	6628.5	5632.9	4734.6	3960.9	3338.6	2835.4	2402.5	2007.5	1650.4	1369.0	995.6
32.5°	7104.7	6044.1	5064.7	4215.2	3533.4	2970.6	2499.9	2083.2	1704.5	1412.3	1038.9
30°	7548.4	6433.7	5389.4	4474.9	3712.0	3095.1	2591.9	2159.0	1769.4	1450.2	1082.2
27.5°	7954.2	6812.5	5714.0	4718.4	3879.7	3208.7	2689.3	2229.3	1823.5	1488.0	1120.1
25°	8322.1	7153.4	6011.6	4940.3	4031.2	3333.2	2781.3	2299.7	1872.2	1520.5	1152.5
22.5°	8668.4	7467.2	6282.2	5162.1	4215.2	3457.6	2867.8	2364.6	1920.9	1553.0	1185.0
20°	8971.5	7754.0	6541.9	5384.0	4377.5	3571.3	2943.6	2424.1	1964.2	1574.6	1217.5
17.5°	9215.0	8008.3	6774.6	5578.8	4518.2	3668.7	3008.5	2478.2	2002.1	1601.7	1239.1
15°	9431.4	8224.7	6969.4	5746.5	4642.6	3749.8	3068.0	2521.5	2034.5	1617.9	1266.2
12.5°	9615.4	8408.7	7137.1	5892.6	4750.9	3820.2	3116.7	2554.0	2061.6	1634.1	1282.4
10°	9766.9	8554.8	7277.8	6006.2	4837.4	3874.3	3154.6	2586.5	2083.2	1650.4	1298.6
7.5°	9880.5	8663.0	7380.6	6103.6	4907.8	3912.2	3187.1	2608.1	2104.9	1661.2	1325.7
5°	9967.1	8755.0	7461.8	6168.6	4961.9	3966.3	3225.0	2635.2	2126.5	1672.0	1325.7
2.5°	10032.0	8830.8	7526.7	6222.7	5005.2	3955.4	3225.0	2629.8	2126.5	1672.0	1320.3
0°	10021.2	8836.2	7521.3	6222.7	5005.2	3944.6	3225.0	2624.3	2126.5	1672.0	1320.3



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	37.9	27.1	10.8	0.0
85°	81.2	54.1	27.1	0.0
82.5°	119.0	75.8	37.9	0.0
80°	156.9	102.8	48.7	0.0
77.5°	200.2	129.9	64.9	0.0
75°	238.1	151.5	75.8	0.0
72.5°	276.0	178.6	86.6	0.0
70°	308.4	200.2	97.4	0.0
67.5°	340.9	227.3	113.6	0.0
65°	367.9	248.9	124.5	0.0
62.5°	389.6	276.0	135.3	0.0
60°	416.6	297.6	146.1	0.0
57.5°	438.3	313.8	156.9	0.0
55°	459.9	324.7	167.7	0.0
52.5°	481.6	340.9	178.6	0.0
50°	503.2	357.1	189.4	0.0
47.5°	524.9	367.9	194.8	0.0
45°	557.3	384.2	205.6	0.0
42.5°	584.4	395.0	216.4	0.0
40°	611.4	405.8	221.9	0.0
37.5°	638.5	416.6	232.7	0.0
35°	665.6	427.5	238.1	0.0
32.5°	687.2	438.3	243.5	0.0
30°	708.8	449.1	248.9	0.0
27.5°	730.5	454.5	254.3	0.0
25°	746.7	465.3	259.7	0.0
22.5°	763.0	470.8	265.1	0.0
20°	773.8	476.2	270.6	0.0
17.5°	790.0	481.6	276.0	0.0
15°	795.4	487.0	286.8	0.0
12.5°	806.2	492.4	286.8	0.0
10°	811.7	497.8	286.8	0.0
7.5°	822.5	497.8	286.8	0.0
5°	817.1	497.8	286.8	0.0
2.5°	817.1	497.8	286.8	0.0
0°	811.7	497.8	286.8	0.0

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